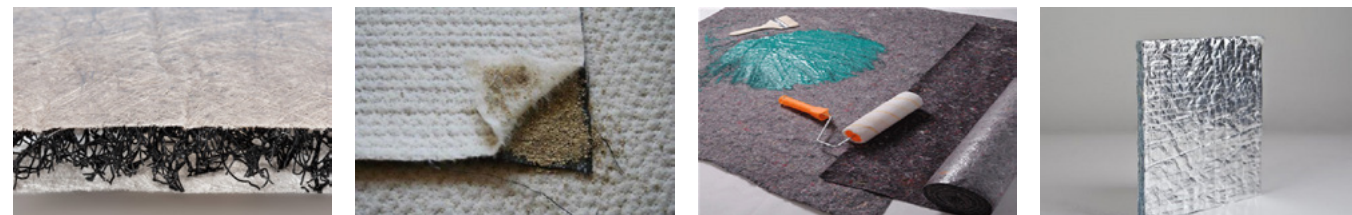


LAMINATIONLine

TECHNOplants designs and manufactures extrusion lines for geogrids, lamination lines for geocomposites, needle-punching lines for geosynthetic clay liners and geomembranes, extrusion coating lines for the lamination of nonwovens with plastic films.



LAMINATION THROUGH

- Hot melt or resin adhesives
- Ultrasonic welding
- Extrusion coating
- Double belt MULTIforce oven
- Electric resistances
- Flame lamination
- Infrared heaters

APPLICATIONS

- Geogrids and geocomposites
- Geosynthetic clay liners and geomembranes
- Film-coated nonwovens for do-it-yourself
- Automotive
- Packaging industry

TECHNICAL CENTER

Try and test all options available for the production of airlaid and airlay carded nonwovens.



TECHNICAL CENTER

At TECHNOplants' technical center clients can conduct trials and test all options available for the production of airlaid and airlay carded nonwovens, from staple fibers to natural or recycled fibers, as well as combinations thereof.

The technical center includes three pilot lines:

Two industrial scale pilot lines of working width 2.5 meters, where clients can verify the reliability of our machines and produce samples with their own raw material. The pilot lines include opening and blending section, complete airlay MULTiline system, needle loom, thermobonding oven and end of line.

A third airlay line of working width 1.2 meters, suitable to test special fibers and develop innovative products and engineered materials.

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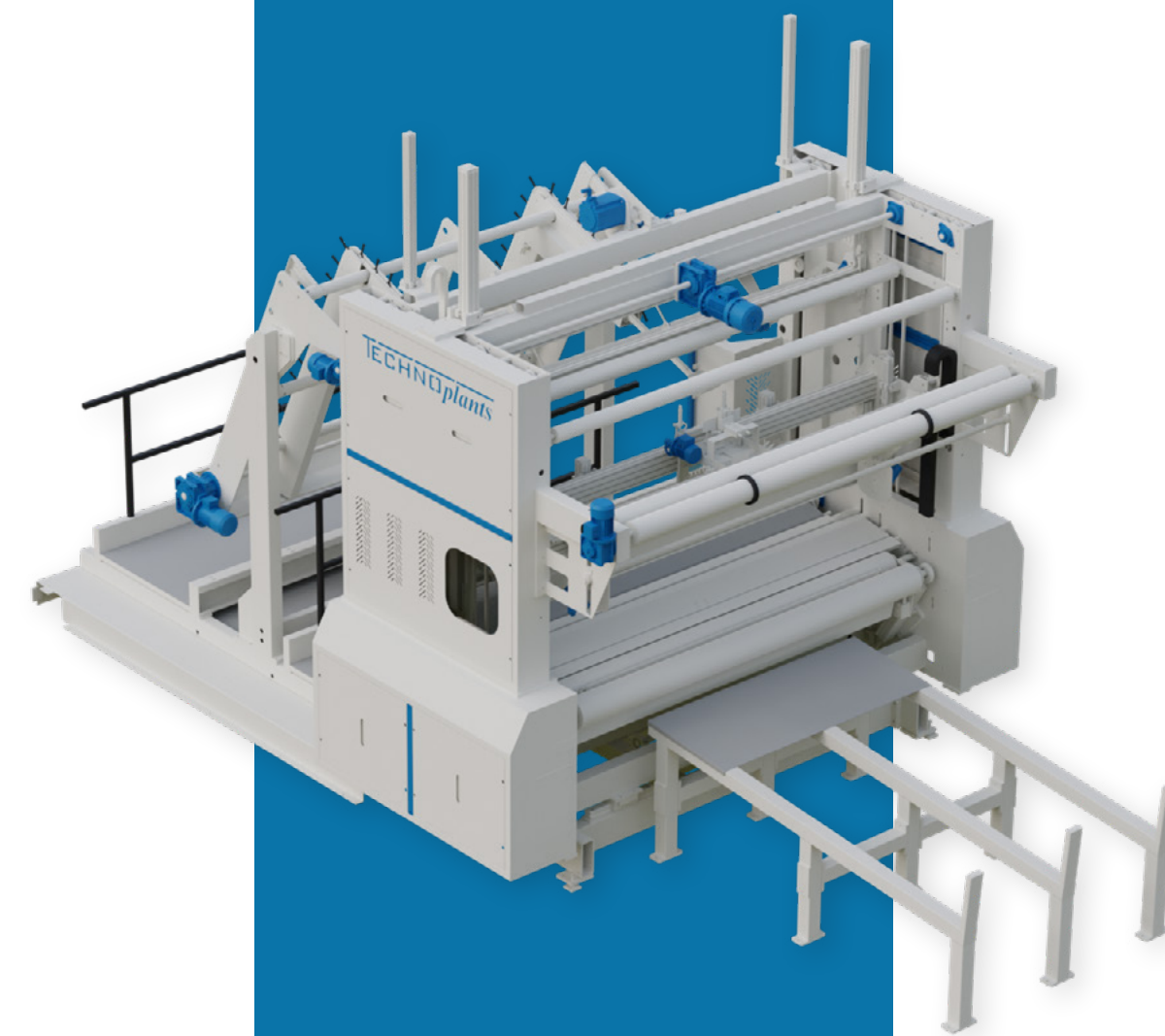
TECHNOplants
Nonwoven machines and complete lines

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AUTOMATIC END OF LINES

Automatic cutting, winding, stacking and packing systems for all web-shaped materials



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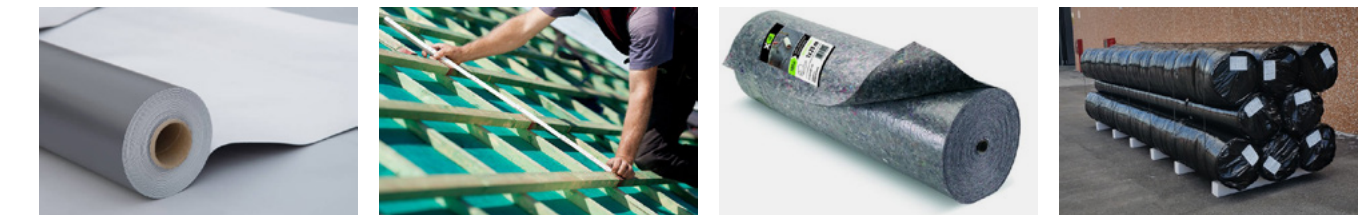
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REWINDINGEquipment

TECHNOplants provides in-line and off-line unwinders, slitters and rewinders for all types of nonwoven products and for a wide range of textile and plastic products.

TECHNOplants' range of production includes unwinders, splicing devices, inspection tables, slitters, rewinders for small diameter rolls, leaflet application and packing units.



MAIN FEATURES

- Single or multiple position unwinders
- Application of glue + protective stripe for roofing industry
- Leaflet application
- Slitting and cross cutting
- Automatic cardboard core dispensing, roll start and roll discharge
- Roll wrapping

APPLICATIONS

- Roofing and membranes
- Small rolls for do-it-yourself
- Inspection lines
- Scrims and films unwinding

END OF LINES Felts and needle punched nonwovens

TECHNOplants provides robust and reliable end of line solutions for very heavy or light needle-punched fabrics, technical felts and automotive felts.

We customize our machine layouts to match your specific process requirements.



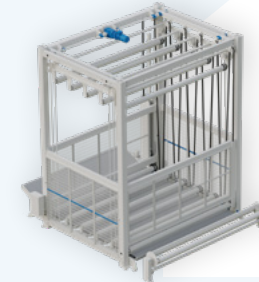
LINE COMPOSITION

- Pneumatic or motorized accumulator
- Crush blade or scissor blade slitting units
- Rotary blade, scissor blade or shear guillotine cross cutting units
- Manual, semi-automatic or fully automatic winder
- Automatic "belt" stacker specifically designed for flexible/soft webs
- Rolls and stacks packing
- Rolls palletizing

APPLICATION FIELDS

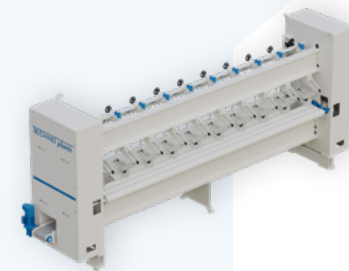
- Geotextiles
- Technical felts
- Automotive felts
- Glass and carbon fibers mats
- Filtration

TECHNOplants
Nonwoven machines and complete lines



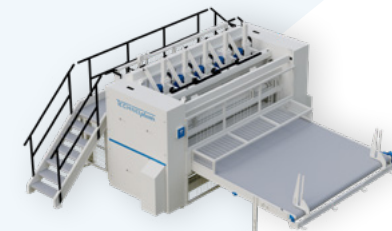
ACCUMULATOR

- Pneumatic accumulators for geotextiles and felts.
- Motorized accumulators.
- Accumulators with driven rollers for light weight and delicate products, needled or thermobonded.



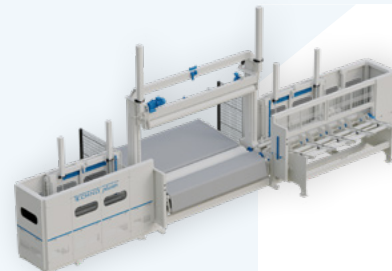
SLITTING UNITS

- Crush blade slitters with blade diameter 200, 300, 400 or 600 mm.
- Anvil roller made of hardened and ground steel.
- Automatic edge trims discharge.
- Scissor blade slitters as an alternative.



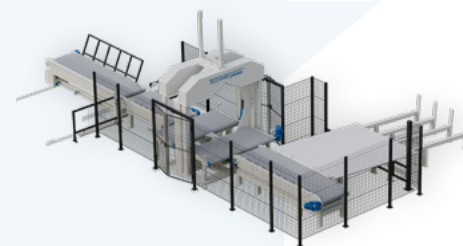
CROSS CUTTING UNIT

- Shear guillotine cross cutting unit with blade and counter-blade made of hardened steel.
- Driven blade cross cutting unit as an alternative, with blade diameter 400 mm.
- Pressing bars to keep the fabric in position during the cutting operation.



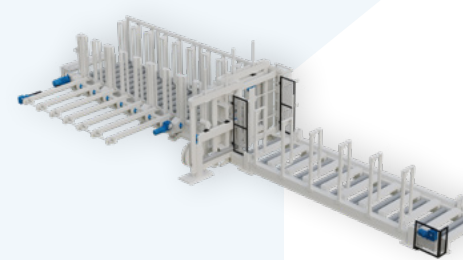
FULLY AUTOMATIC WINDER

- Automatic cardboard core magazine and loading device.
- Automatic roll start and roll discharge.
- Pressing roller to obtain compact and uniform rolls.
- Lateral cones or integrated semi-shafts to hold core + roll.



WRAPPING UNIT

- Automatic transfer of the roll from the winder to the wrapping unit.
- Total-close spiral wrapping unit for roll diameter up to 1600 mm.
- Lateral welding wrappers or wrapping systems on-board of the winder as an alternative.



ROLLS PALLETIZING AND STRAPPING

- Fully automatic rolls palletizing unit.
- Package compacting and strapping unit, the distance between the straps can be set from touch panel.
- Automatic positioning of the strapped pallet on wood or plastic feet.
- Automatic palletizing with manual strapping operation as an alternative.

END OF LINES Waddings and voluminous nonwovens

TECHNOplants is specialized in the design of end of line equipment for thermobonded products from light weight to high thickness, rigid webs and composites. We design the ideal winding, stacking and packing process for your material, based on your individual requirements and our multi-decade expertise.



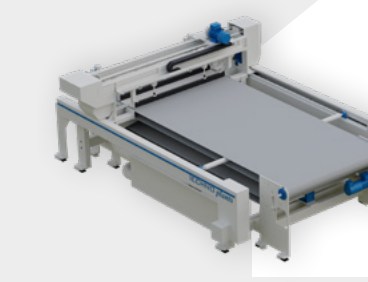
LINE COMPOSITION

- Small accumulation through loop control
- Flying cross cutting unit for rigid products that can't be accumulated
- Rotary blade slitters of diameter up to 700 mm or band saw blades
- Rotary blade and/or guillotine crosscut units
- Manual, semi-automatic or automatic compressive winder
- Automatic "fork" stacker with integrated accumulation system
- Double position "belt" stacker for small pads and insulation sector
- Rolls and stacks packing
- Rolls and stacks palletizing

APPLICATION FIELDS

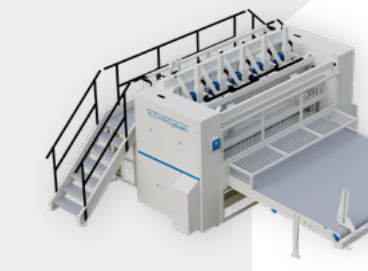
- Mattress and upholstery waddings
- Automotive felts
- Building insulation
- Packaging insulation
- Flooring

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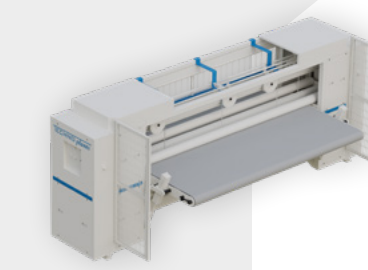
FLYING ROTARY CROSS CUTTER

- For rigid or high thickness products that can't be accumulated during the crosscutting operation.
- The cutting unit is installed on a mobile carriage that follows the fabric during the cross cutting operation.
- Any of TECHNOplants cross cutting systems can be installed on the flying carriage: rotary blade, scissor blade, shear guillotine, band saw blade.



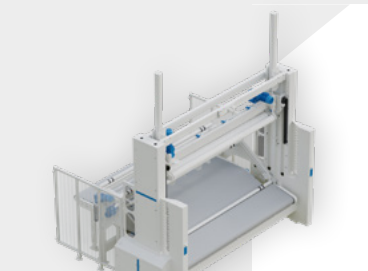
DRIVEN BLADES SLITTING UNIT

- Slitting through driven blades of diameter 400 or 700 mm.
- Individual transversal positioning of the slitting groups, manual or automatic.
- Access catwalk to easily and safely operate the slitting system.
- Cross cutting through driven rotary blade, guillotine blade or both.
- Simple roll-up unit in exit.



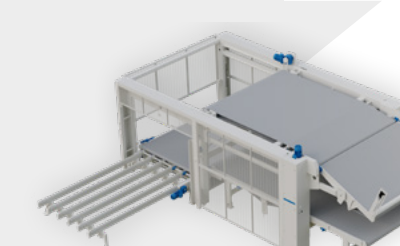
BAND SAW BLADE

- Band saw blade slitting system realized through a series of adjustable pulleys, on which the band saw blade runs creating slitting portions.
- Manual or automatic positioning of the slitting blade portions.
- It can be paired with the band saw cross cutting system for transversal cut.



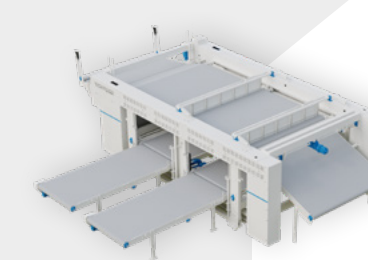
COMPRESSIVE AUTOMATIC WINDER

- Automatic core + mandrel magazine and transfer device.
- Automatic roll start and roll discharge.
- Pressing roller to obtain compact or compressed rolls.
- No need of accumulators to handle the roll-change phase.



FORK STACKER

- Pads discharge system in entry.
- Automatic stacking action thanks to a carriage with forks.
- Internal accumulation during the stack discharge phase.
- Pallet loading conveyor in option.



DOUBLE POSITION STACKER

- Particularly suitable for short pads and small-size stacks.
- Two stacking positions to handle the discharge of the complete stack without interruptions.
- Pallet loading conveyors in option.
- Automatic transfer to the downstream wrapping and palletizing station.